



Applicants: Kmiec *et al.*
 Application No.: 09/818,875
 Filed: March 27, 2001
 For : TARGETED CHROMOSOMAL GENOMIC
 ALTERATIONS WITH MODIFIED SINGLE
 STRANDED OLIGONUCLEOTIDES

NaPro-4

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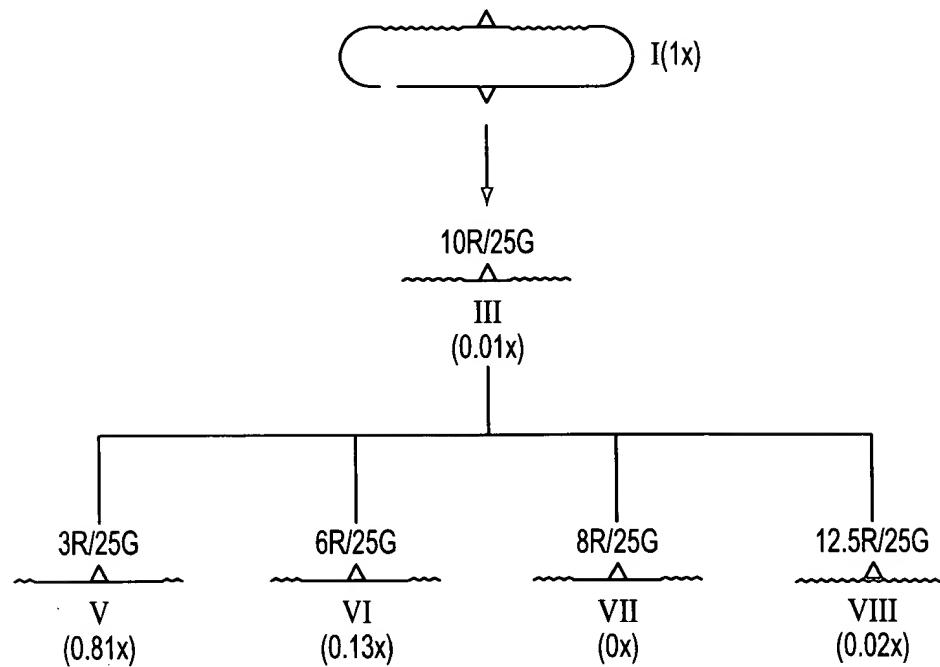


FIG. 1A

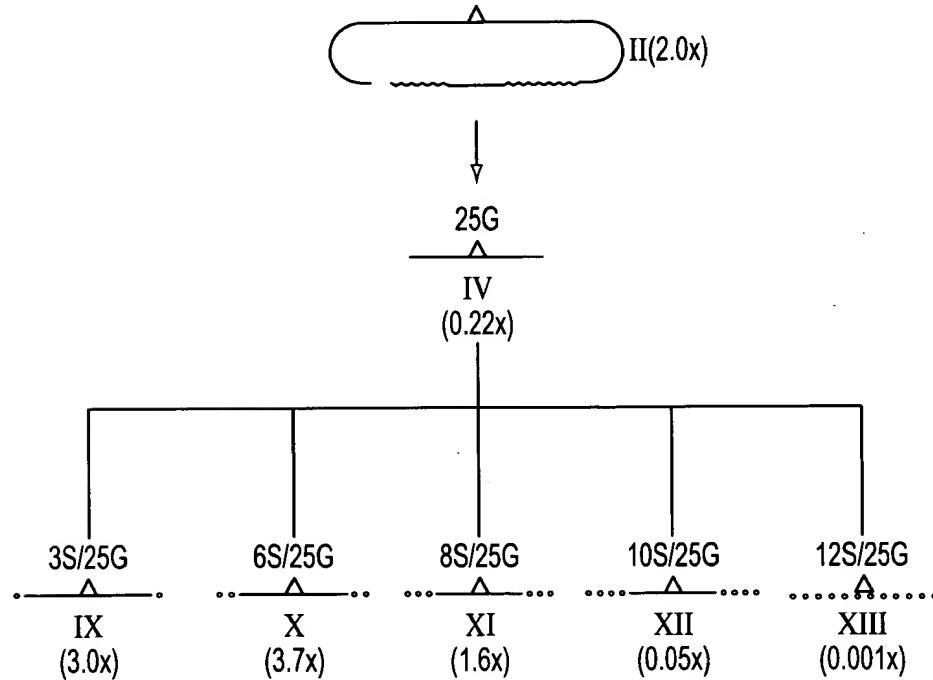


FIG. 1B



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PLASMIDS, DNA TARGETS AND CHIMERIC OLIGONUCLEOTIDES

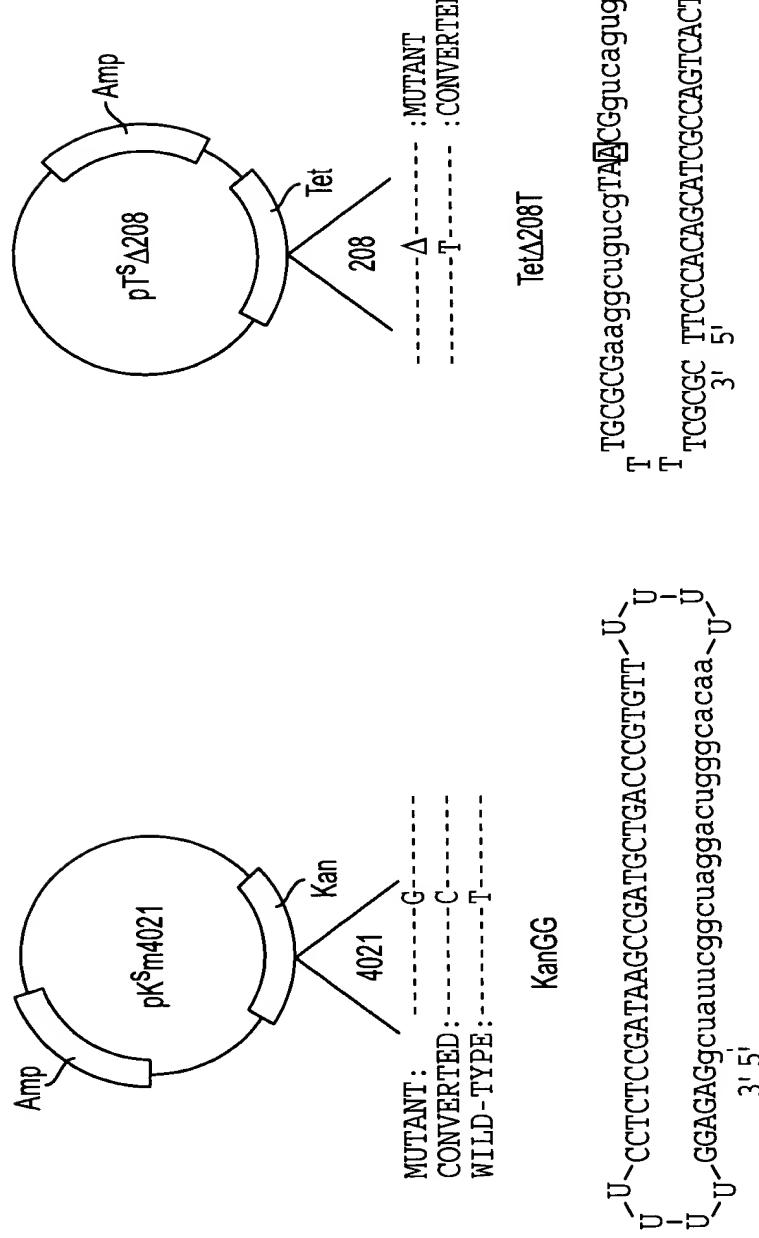


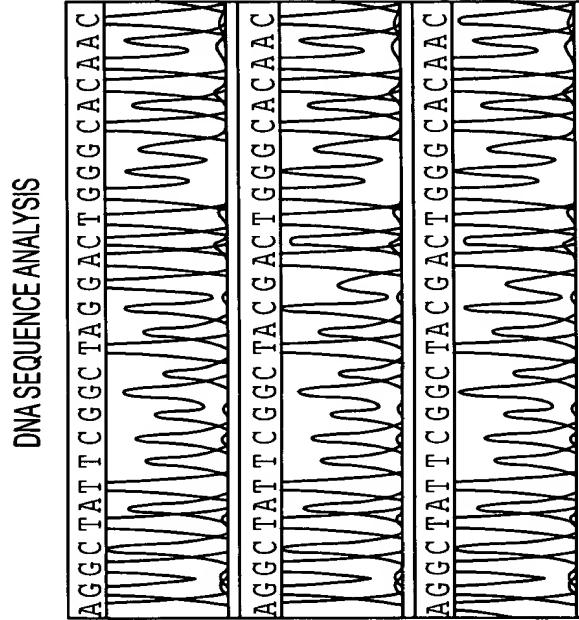
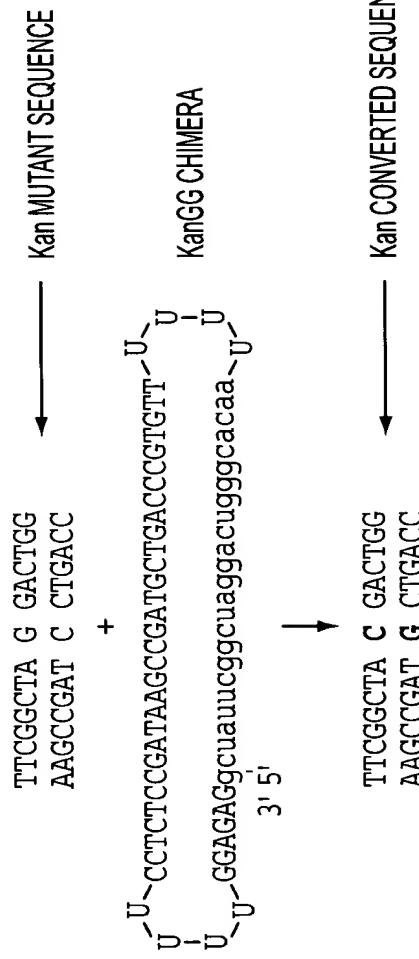
FIG. 1C



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1D
FIG.



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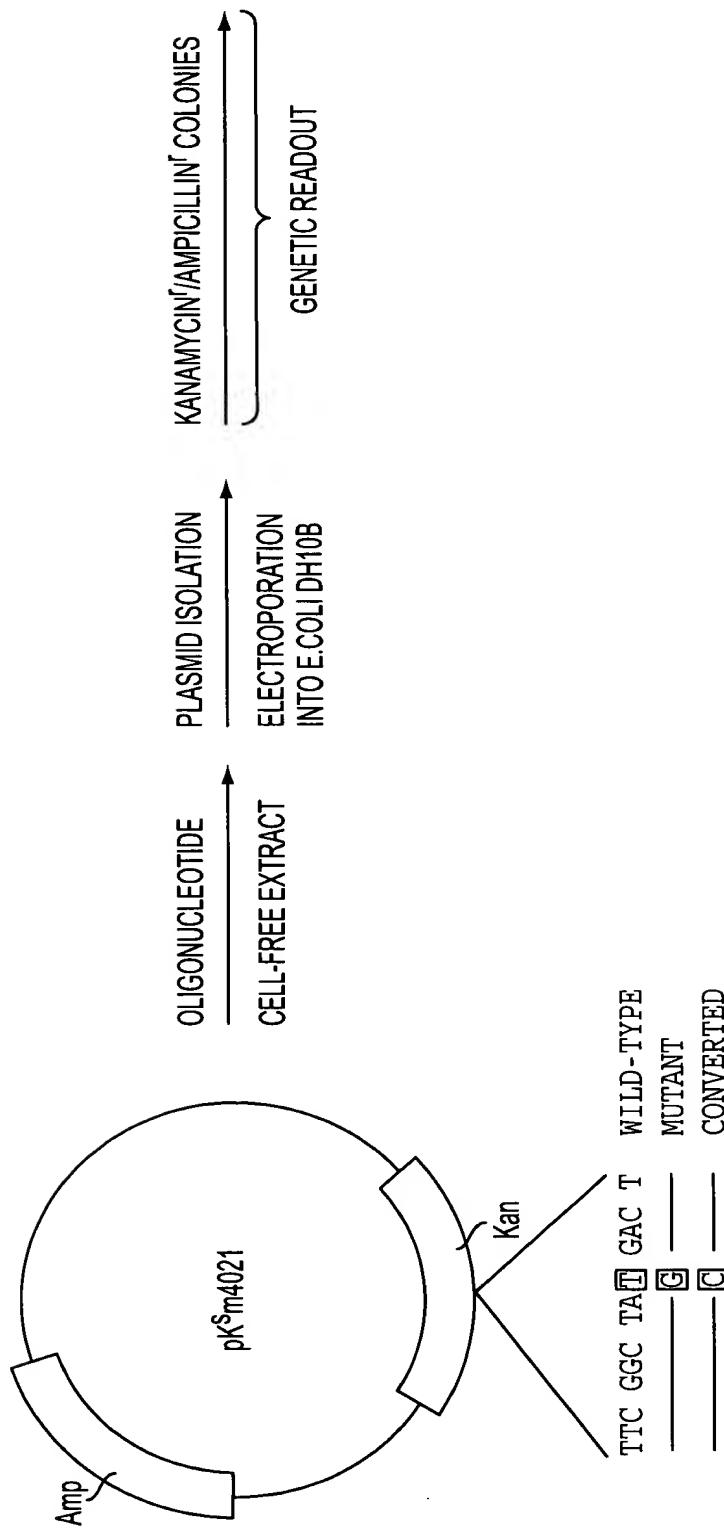
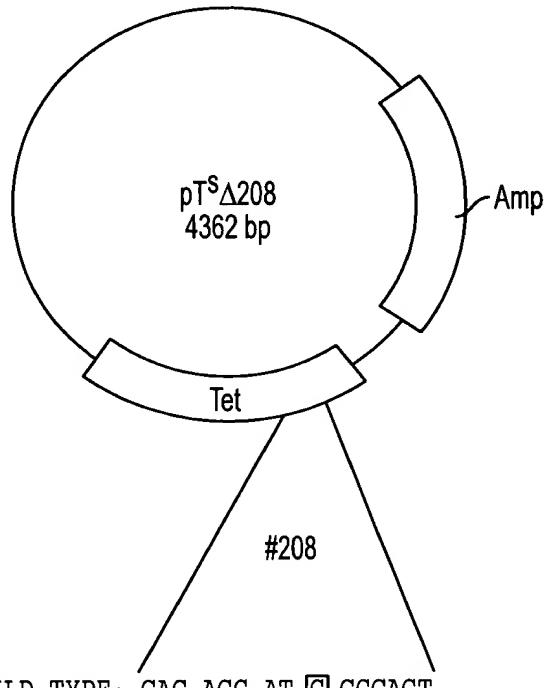


FIG. 2

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WILD TYPE: GAC AGC AT [C] GCCAGT
MUTANT: GAC AGC AT - GCCAGT
CONVERTED: GAC AGC AT [T] GCCAGT

SEQUENCE ANALYSIS OF Tet^r PLASMID $\Delta 208$

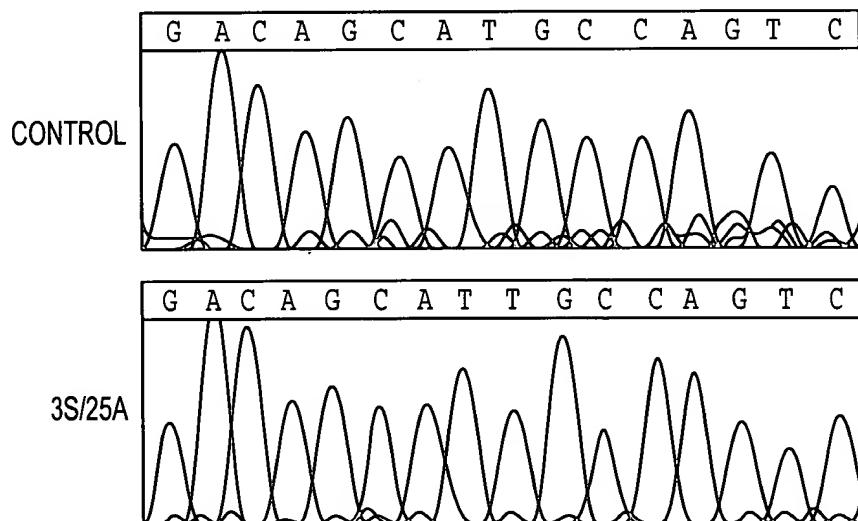


FIG. 3



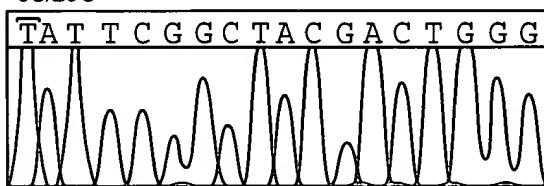
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DNA SEQUENCE ANALYSIS OF Kan^r PLASMIDS

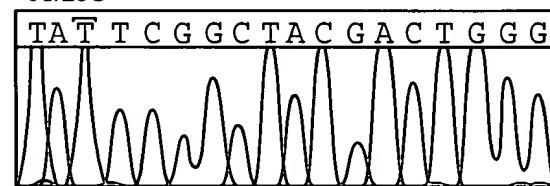
TARGET CODON DISTRIBUTION

OLIGOMER	TAG	TAC	TAC/TAG	TGG	TCG
1) 3S/25G (20)	--	+	--	--	--
2) 6S/25G (20)	--	+	--	--	--
3) 8S/25G (20)	--	+	--	--	--
4) 10S/25G (18)	--	+	--	+(2)	+(2)
5) 25S/25G (4)	--	--	+ (2)	+ (2)	--

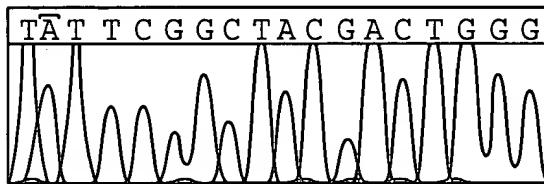
3S/25G



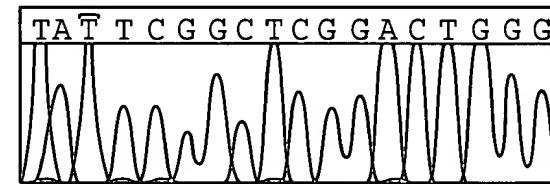
6S/25G



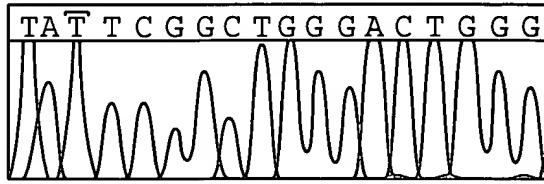
8S/25G



10S/25G



25S/25G



25S/25G

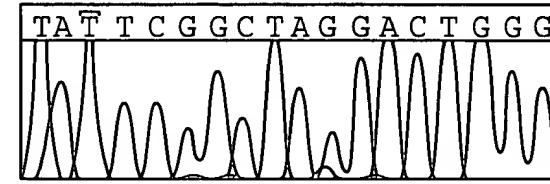


FIG. 4



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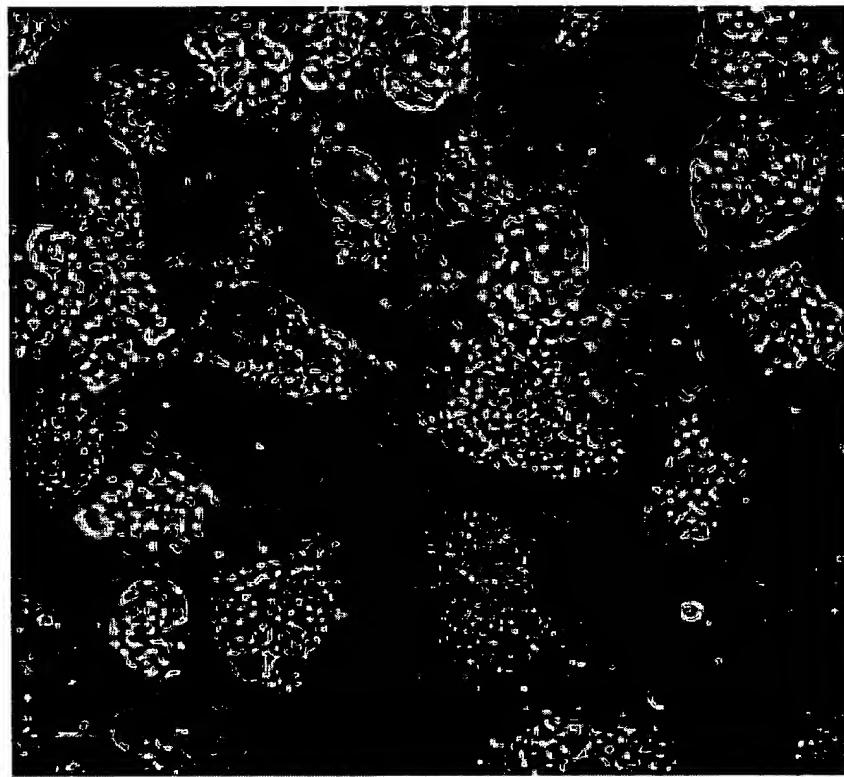


FIG. 5



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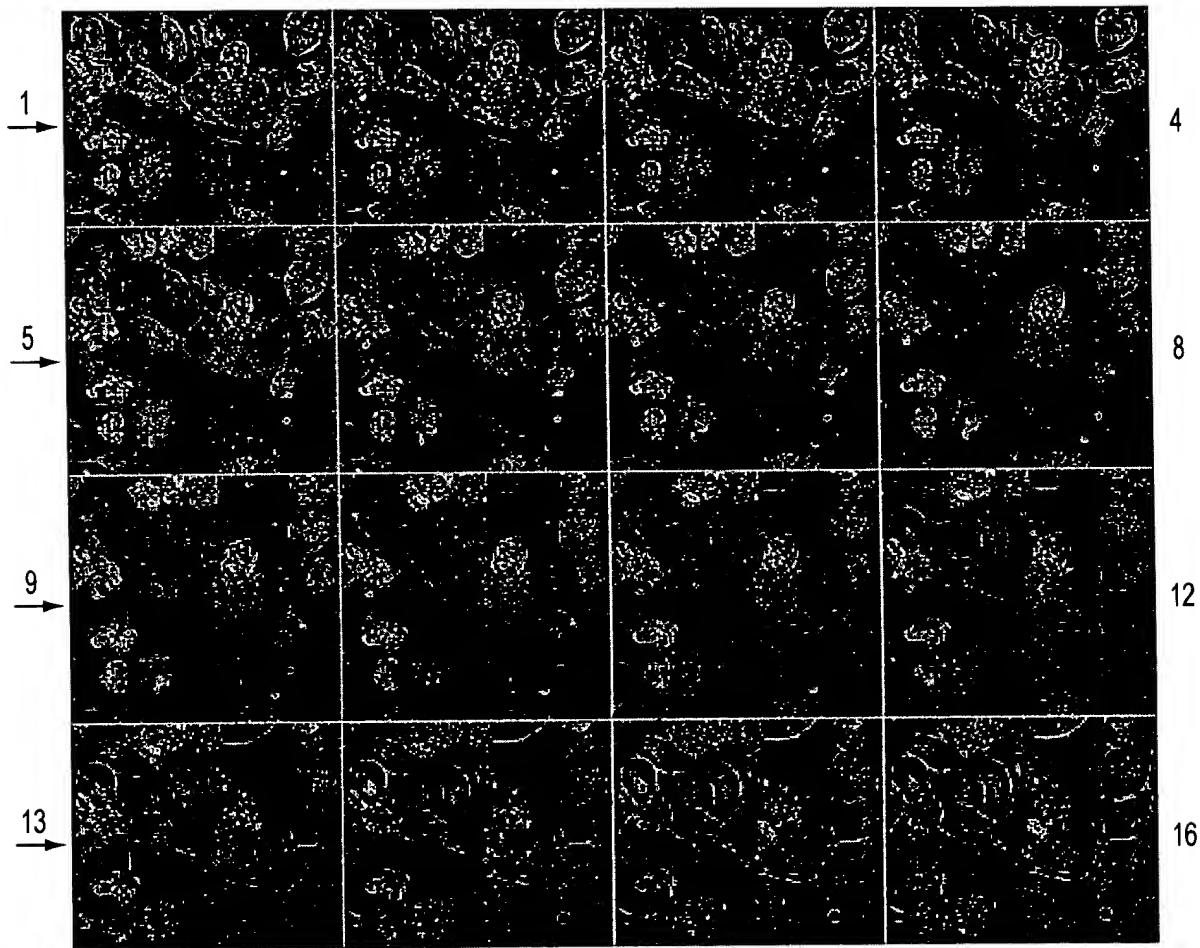


FIG. 6



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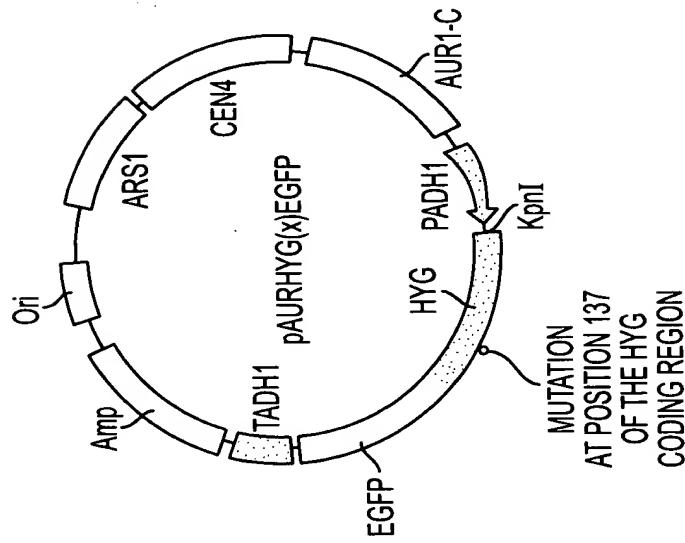


FIG. 7C

SEQUENCE OF NORMAL ALLELE: GTGGATATGTCCCT
TARGET/EXISTING MUTANT: GTGGATAAGTCCCT
DESIRED ALTERATION: GTGGATAACGTCCCT

FIG. 7A

SEQUENCE OF NORMAL ALLELE: GTGGATATGTCCCT
TARGET/EXISTING MUTANT: GTGGATAGGTCCCT
DESIRED ALTERATION: GTGGATAACGTCCCT

FIG. 7B

O I P E
OCT 22 2002
ENTERTAINMENT
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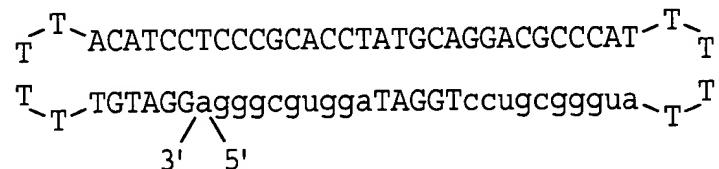
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HygE3T/25: 5'-AGG GCG TGG ATA CGT CCT GCG GGT A-3'

HygE3T/74: 5'-CTC GTG CTT TCA GCT TCG ATG TAG GAG GGC
GTG GAT ACG TCC TGC GGG TAA ATA GCT GCG
CCG ATG GTT TCT AC-3'

HygE3T/74α: 5'-GTA GAA ACC ATC GGC GCA GCT ATT TAC CCG
CAG GAC GTA TCC ACG CCC TCC TAC ATC GAA
GCT GAA AGC ACG AG-3'

HygGG/Rev:



Kan70T: 5'-CAT CAG AGC AGC CAA TTG TCT GTT GTG CCC AGT
CGT AGC CGA ATA GCC TCT CCA CCC AAG CGG CCG GAG
A-3'

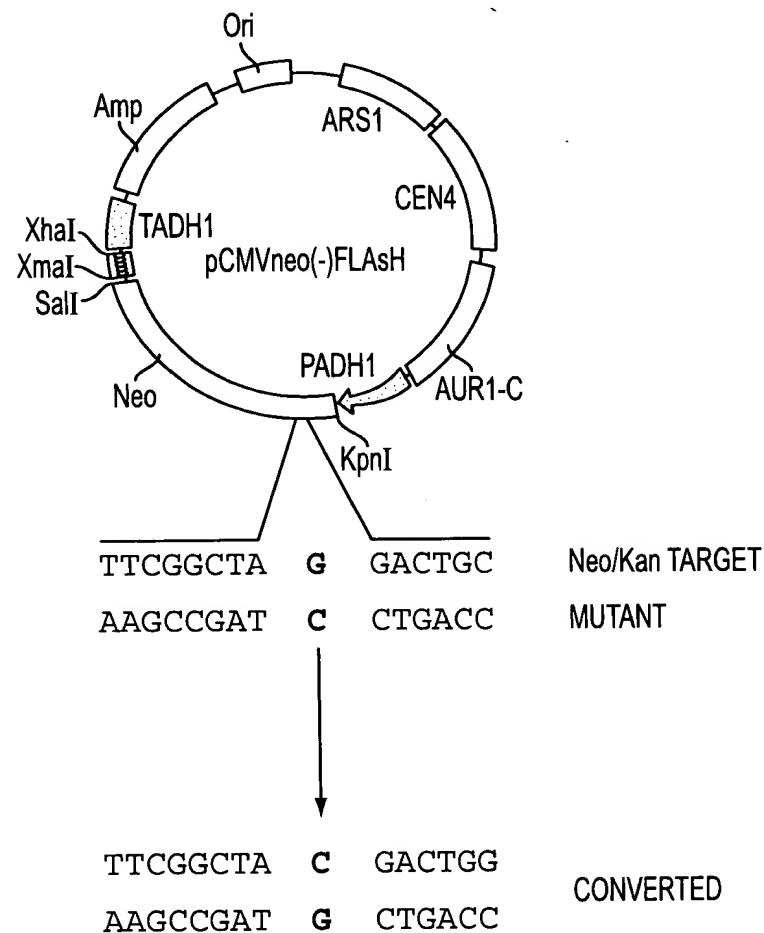
FIG. 8



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FUSION GENE FOR LIGAND BINDING

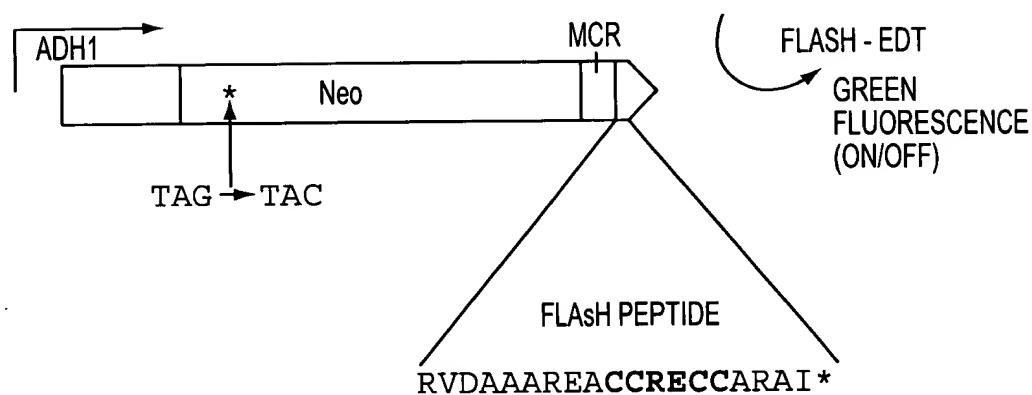


FIG. 9



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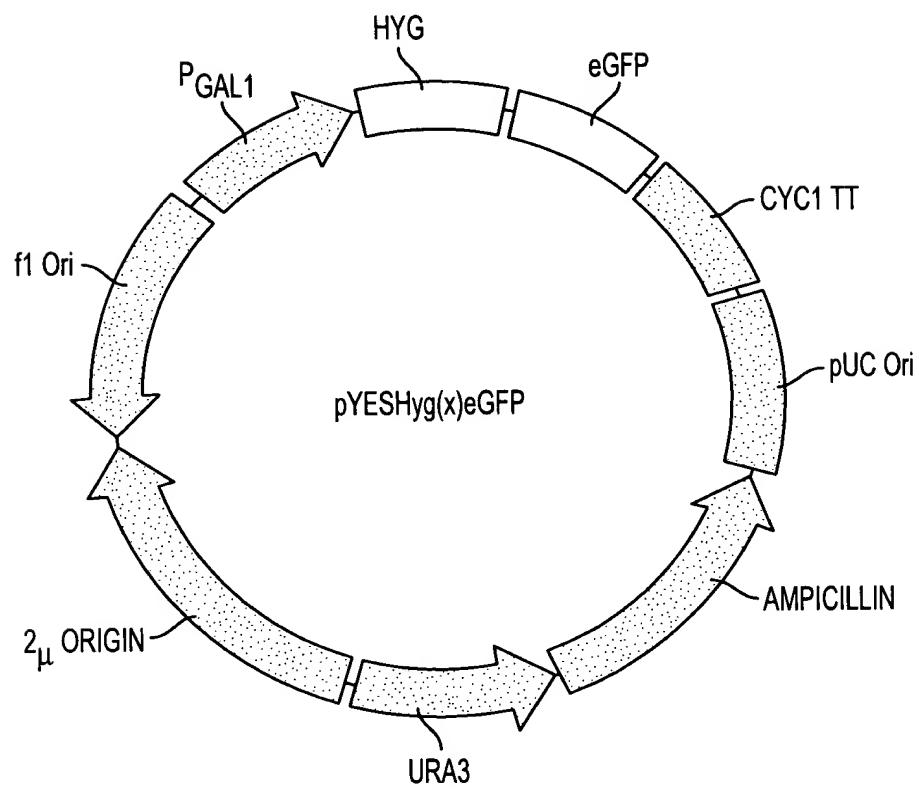


FIG. 10